P-986A

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TITLE OF THE INVENTION

Process for Treating Industrial and Municipal

Waste Water Highly Loaded with Ammonium

This apply is a Div of 04/530,624 07/03/00 Pat 6,589,425

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The invention concerns a process for treating industrial and municipal waste waters highly loaded with ammonium. In accordance with the invention "ammonium" is understood as meaning both ammonium compounds as well as ammonia.

BACKGROUND OF THE INVENTION

Waste water loaded with ammonium, including highly loaded industrial waste water, can be purified in different ways. In the case of physical purification, the pH value is increased by the addition of lye, whereupon ammonia is removed by stripping with steam or with a gas and recovered by condensation. The profit from the recovered ammonia is very small in comparison with the high investment costs, and, in addition, waste waters can only be purified if they contain less than 100 mg $\rm NH_4$ - nitrogen $(\rm NH_4-N)$ per liter in this way.

A chemical process for removal is based on the precipitation of magnesium ammonium phosphate. In this case magnesium salts and phosphates are added to the waste water, magnesium ammonium phosphate precipitates out at a specific pH value. The magnesium ammonium phosphate can be reprocessed by heating, producing magnesium hydrogen phosphate and ammonia, which can be removed by stripping. The magnesium hydrogen phosphate then can be added to the

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January 12, 2005

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Patricia Small United States Patent and Trademark Office Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

U.S. Serial No. 10/613,661

Filed: July 7, 2003

Title: PROCESS FOR TREATING INDUSTRIAL AND

MUNICIPAL WASTE WATER HIGHLY LOADED

WITH AMMONIUM

Confirmation No. 7270 Group Art No. 1724

Attorney Docket No. P-986A

Dear Ms. Small:

This letter is written in response to your telephone call of January 12, 2005, in which you inquired as to the address of the three legal representatives of the inventor Maximilian Hogl. I have been advised that their legal address is Felix-Meindl-Weg 80, 84036 Landshut, Federal Republic of Germany. The post office address is Luitpoldstrasse 30 a, 84034 Landshut, Federal Republic of Germany.

If you have any further questions concerning this matter, please contact me. Please acknowledge receipt of this letter.

Sincerely,

COM, GILMAN & MAHAN, P.S.C.

Cott R. Cox

SRC: hh

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